Docket No.: NEN-23002/16 (PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re l	Patent Application of: Blas Cerda	
Applio	cation No.: 10/539,180	Confirmation No.: 2257
	March 30, 2006 (erroneously listed by the at Office as March 20, 2006)	Art Unit: 1657
For:	SIMULTANEOUS DETECTION OF METABOLIC ENZYME ACTIVITY AND METABOLITE LEVELS	Examiner: P. C. Martin
	REQUEST FOR CORRECTED	FILING RECEIPT

	1.	Attached is a copy of the official filing receipt received from the P1O in the
	ve-refer uested.	enced application for which issuance of a corrected filing receipt is respectfully
requ	uesieu.	
	2.	There is an error with respect to the following data which is:

	(XX) incorrectly entered and/or ( ) omitted		
	Error in		Correct data
( ) ( ) ( ) (X)	Applicant's name Applicant's address Title §102(e) Filing date	1. 2. 3. 4.	March 30, 2006 (see attached evidence)
()	Serial number Attorney Docket No. Domestic Priority Data Power of Attorney	5. 6. 7. 8.	Silasilos
3.	(Complete the following applic	able iten	n A or B)

A. (X) The correction(s) is/are not due to any error by Applicant and no fee is due.

OR

B. ( ) At least one of the above corrections is due to Applicant's error.

Reg. No. 50,434

Tel. No.: (734) 913-9300

Signature of Attorney

Julie/K. Staple

Gifford, Krass, Sprinkle, Anderson

& Citkowski, P.C.

P.O. Box 7021 Troy, MI 48007-7021 FAX (734) 913-6007





TROY, MI 48007-7021

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS RO. Box 1459 Alexandria, Varieta 2213-1459

				and the same	- Mor		
APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/539,180	03/20/2006	1661	2280	NEN-23002/16	1	39	6

37742 GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON & CITKOWSKI, P.C. P.O. BOX 7021 CONFIRMATION NO. 2257 FILING RECEIPT

\*OC000000019961181\*

Date Mailed: 08/10/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filling Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filling Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filling Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filling Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Bias Cerda, Milford, MA;

Power of Attorney: The patent practitioners associated with Customer Number 37742.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/US05/06371 02/28/2005

Foreign Applications

If Required, Foreign Filing License Granted: 08/09/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US10/539.180

Projected Publication Date: 11/16/2006

Non-Publication Request: No

Early Publication Request: No

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ALE 18 2005

OFFORD, 12 ASS, OROH, SETAMMUE
ANDERSON'S DITROVENIE ACCEPTION

Title

Simultaneous detection of metabolic enzyme activity and metabolite levels

### **Preliminary Class**

435

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stoptakes.gov. Part of a Department of Commerce initiative, this website includes self-fielp "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotiline at 1-866-999-141DT (1-866-999-415B).

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselvies of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defens Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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imprinted  Transmittal Letter 3 1 1  □ New Patent Application  — Pages(s) Specification  — Page(s) Abstract  — Pages(s) Claims  — Sheets of Drawings	PATENT  mp of the U.S. Patent and Trademar d hereon acknowledges the filling of:    IDS, PTO 1449 & Patents   Amendment/Response   Declaration & Power of Attorney   Assignment & Recordation Cover Sheet   Application Data Sheet   Application Data Sheet
Serial/Pet. No.: 10/53!  Date: 3/36/2=06  Cert. of Mailling RWC/LE  EV 549545026 US	Due Date:    Express Meil#EV 66 95 45 026 025
CORTILINE COSTA VISION COSTA	DELIVERY ROSTAL SERVICE  DATA Concept Committee Committe
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# EXPRES MAIL LABEL # EV66954 TOZEUS

FORM	PT0-13	90 (Modified) U.S. PATENT AND TRACE.	ARK OFFICE; U.S. DEPARTMENT OF COMMENCE	ALIC.INE IS DUCKET NUMBER		
(REV.	7-2005)		TO THE UNITED STATES	NEN-23002/16		
l	Ī	DESIGNATED/ELECTE	D OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		
١,			SION UNDER 35 U.S.C. 371	10/539,180		
INTE		IONAL APPLICATION NO. PCT/US05/006371	INTERNATIONAL FILING DATE 28 February 2005	PRIORITY DATE CLAIMED 30 August 2004		
TITL		NVENTION	20 7 05. 441 7 2000	90 110 200 1		
	SIMULTANEOUS DETECTION OF METABOLIC ENZYME ACTIVITY AND METABOLITE LEVELS					
APP	ICAN	T(S) FOR DO/EO/US				
Blas	Cerd	n				
				•		
Appli	cant h	erewith submits to the United State	es Designated/Elected Office (DO/EO/US) the	following items and other information:		
1.		This is a FIRST submission of ite	ms concerning a submission under 35 U.S.C.	371.		
2.	X	This is a SECOND or SUBSEQU	ENT submission of items concerning a submi	ssion under 35 U.S.C. 371.		
3.		This is an express request to beg (9) and (24) indicated below.	in national examination procedures (35 U.S.C	371(f)). The submission must include items (5), (6),		
4.		The US has been elected (Article	31).			
5.		A copy of the International Applic	ation as filed (35 U.S.C. 371 (c)(2))			
ı		a. O is attached hereto (requ	ired only if not communicated by the Internat	ional Bureau).		
ı		b.   has been communicate	d by the International Bureau.			
		c. D is not required, as the a	pplication was filed in the United States Rece	iving Office (RO/US).		
6.	<ol> <li>An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</li> </ol>					
	a.  is attached hereto.					
ı	b. ☐ has been previously submitted under 35 U.S.C, 154(d)(4).					
7.	7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))					
ŀ	<ul> <li>a.           are attached hereto (required only if not communicated by the International Bureau).</li> </ul>					
l	b.  have been communicated by the International Bureau.					
ı		c.  have not been made; h	owever, the time limit for making such amend	ments has NOT expired.		
ı		d.   have not been made an	d will not be made.			
8.		An English language translation of	of the amendments to the claims under PCT A	rticle 19 (35 U.S.C. 371(c)(3)).		
9.	Ø	An oath or declaration of the inve				
10.		An English language translation of Article 36 (35 U.S.C. 371 (c)(5)).	of the annexes to the International Preliminary	Examination Report under PCT		
11.		A copy of the International Prelim	inary Examination Report (PCT/IPEA/409).			
12.		A copy of the International Search	h Report (PCT/ISA/210).			
	ems 1	3 to 23 below concern documen	t(s) or information included:			
13.			ment under 37 CFR 1.97 and 1.98.			
14.		An assignment document for rec	ording. A separate cover sheet in compliance	with 37 CFR 3.28 and 3.31 is included.		
15.	15. A FIRST preliminary amendment.					
16.	16. A SECOND or SUBSEQUENT preliminary amendment.					
17.		A substitute specification.				
18.		A power of attorney and/or change	e of address letter.			
19.			sequence listing in accordance with PCT Rule			
20.			nternational Application under 35 U.S.C. 154(			
21.			guage translation of the International Applicati	on under 35 U.S.C. 154(d)(4).		
22.	Ø	Express Mail Label No. EV	669545026 US			

FTO -339 (fter, 07-203)

Approved for use through 31/2030 (fter, 07-203)

U.S. Pelant and Tananak Officer, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no parsons are required to respond to a collection of information unless if deplays a valid for information unless if deplays or unit control number. U.S. APPLICATION NO (If known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER 10/539.180 PCT/US05/006371 NEN-23002/16 23. Other items or information: CALCULATIONS PTO USE The following fees have been submitted: 24. 🗆 Basic national fee ..... 5300 \$0.00 Examination fee (37 CFR 1.492(c)). If the written opinion prepared by ISA/US or the international preliminary examination report \$0.00 prepared by IPEA/US Indicates all claims satisfy provisions of PCT Article \$200 26. Search fee (37 CFR 1.492(b)) If the written opinionof the ISA/US or the international preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)... Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the \$0.00 as an International Searching Authority. International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. TOTAL OF 24, 25 and 26 = \$0.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.421(c)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or RATE fraction thereof (round up to a whole - 100 = /50 = \$250.00 \$0.00 Surcharne of \$130.00 for furnishing any of the search fee, examination fee, or the oath or \$130.00 declaration after the date of commencement of the national stage (37 CFR 1.492(h)). CLAIMS NUMBER FILED NUMBER EXTRA Total claims - 20 = n \$50.00 \$0.00 Independent claims - 3= \$200.00 \$0.00 х MULTIPLE DEPENDENT CLAIMS (If applicable) П \$360.00 \$0.00 TOTAL OF ABOVE CALCULATIONS = \$130.00 Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by \$0.00 SUBTOTAL = S \$130.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from \$0.00 the earliest claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = \$130.00 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property \$0.00 TOTAL FEES ENCLOSED = \$130.00 Amount to be \$ Amount to be \$

a. Xi A check in the amount of S \$130.00 to cover the above fees is enclosed. b. Please charge my Deposit Account No. In the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. c. 🗵 The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1180 . A duplicate copy of this sheet is enclosed. d. 
Fees are to be charged to a credit card. WARNING: Information on this form may beginne public. Credit card. information should not be included on this form. Provide credit card information a NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a promust be filed and granted to restore the international Application to pending statu SEND ALL CORRESPONDENCE TO: Ronald W. Citkowski Gifford, Krass, Groh, Sprinkle. Ronald W. Citkowski Anderson & Citkowski, P.C. NAME 2701 Troy Center Drive, Suite 330 P.O. Box 7021 31,005 Troy, MI 48007-7021 REGISTRATION NUMBER 248-647-6000 March 30, 2006 DATE

Docket No. NEN-23002/16

# Declaration and Power of Attorney For Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

SIMULTANEOUS DETECTION OF METABOLIC ENZYME ACTIVITY AND METABOLITE LEVELS

the specification of which	
(check one)	
☐ is attached hereto.	
was filed on June 16, 2005 as United States Application	on No. or PCT International
Application Number 10/539,180	
and was amended on	
(if applicable)	

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or plant breeder's rights certificate(s), or 365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application	<u>(a)nc</u>		Priority Claimed
PCT/US05/006371	WIPO	28 February 2005	$\boxtimes$
(Number)	(Country)	(Day/Month/Year Filed)	
PCT/US04/028238	wipo	30 August 2004	
(Number)	(Country)	(Day/Month/Year Filed)	
-80			
(Number)	(Country)	(Day/Month/Year Filed)	

ereby claim the benefit under ication(s) listed below:	35 U.S.C. Section 119(e)	of any	United	States	provis
(Application Serial No.)	(Filing Date)				
(Application Serial No.)	(Filing Date)				
(Application Serial No.)	(Filing Date)				

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

10/652,732	August 29, 2003	Pending	
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)	
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)	
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

All practitioners associated with Customer No. 37742

Send Correspondence to: Ronald W. Citkowski

Gifford, Krass, Groh, Sprinkle, Anderson & Citkowski, PC

PO Box 7021

Troy, MI 48007-7021

Direct Telephone Calls to: (name and telephone number)

Ronald W. Citkowski (248) 647-6000

Full name of sole or first inventor Blas Cerda	
Sole or first inventor's signature  Ala (2 da )  Résidence Milford, Massachusetts	11/07/2005
Cilizenship Mexico	•
Post Office Address 9 Eben St.	*****
Milford, Massachusetts 01757	

Full name of second inventor, if any	- V	
Second inventor's signature		Date
Residence		
Citizenship		***
Post Office Address		